

APPENDIX TO THE RESPONSE TO NON-FINAL OFFICE ACTION DATED 10/24/2005

in

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INFORMATION-BEARING PAVEMENT TAPE



Product Bulletin Trident

Release B, Effective January 2005
See Bulletin Change Summary on last page

Trident Transfer Paper ES

Description

Applications and End Uses

Trident transfer paper is an image transfer media that is designed for use with the listed Compatible Products and in the following applications. This application is warranted by the 3M™ MCS™ Warranty.

- For electrostatically printing images that are transferred by heat and pressure to film or other media

Limitations of End Uses

We do not normally warrant other applications, but please contact us to discuss your needs or let us suggest other 3M products.

Specifically, we do not warrant this film for the following:

- Graphics not produced by a Scotchprint® Graphics Authorized Manufacturer.
- Graphics produced without an overlaminate or overprint clear.

Compatible Products

Toners

Scotchprint® Toner Series 8700/8800

Films

- All 3M™ Controltac™ Plus Graphic Films ES
- All 3M™ Scotchcal™ Graphic Films ES

Banner Material

3M™ Banner Material 8450

Overlaminates and Overprint Clears

Use the overlaminate or clear recommended in the product bulletin for the film or media you are using.

Electrostatic Printers

- Scotchprint® Printer 2000
- Scotchprint® Printer 9512
- Xerox® Printer 8954
- Raster Graphics DCS™ 5442

Hot Roll Laminators

- 3M™ M9540
- GBC/Pro-Tech ORCA III™ (3M™ M9543)
- GBC/Pro-Tech ORCA IV™ (3M™ M9544)
- Sallmetal 1600 TTL and 106ST2
- Seal Image® 6000 Ultra
- Crest 1600 TTL
- Crest 1600 UTL

Effective Performance Life

Trident transfer paper is a matched component in a warranted Scotchprint® Graphic when produced by a Scotchprint® Graphics Authorized Manufacturer according to 3M recommendations. Refer to the Effective Performance Life section in the Product Bulletin of the film or media you are using for warranted durability and other details.

Appearance

Images printed on Trident transfer paper maintain excellent color fidelity when transferred to film or media.

Determine if Printer Calibration Is Required

The printer operator should periodically verify printer calibration accuracy by visually comparing the CMYK test file to the same file printed previously. If necessary, perform the Printer Calibration procedure in the Scotchprint Graphic Maker Software user's guide.

Image Transfer

Refer to Instruction Bulletin 4.7 for complete details on image transfer.

Operating Environment

For optimum performance, maintain this printing environment:

- Relative humidity of 45% to 55%.
- Ambient temperature of 65° to 73°F (18° to 23°C).

Condition Paper Before Use

Before using this paper, remove it from the box and remove the plastic sleeve. Condition the Trident transfer paper for 24 hours in the same environment as the printer.

Note: For the full product names of the 3M products listed on this page, please see page 1.

Processing Details

- **Back tension**
Additional back tension on the printed paper roll may be required to maintain the flatness of the paper as it enters the nip of the rollers. If the paper is not flat, you may get "d-waves" immediately ahead of the nip point, which appear as curved defects in the transferred image.
- **Paper take-up**
Use care when handling the paper at the take-up roll. Trident transfer paper may be somewhat brittle *after* the image is transferred to the film or media.
- **Transfer speed**
Transfer speed depends on the image and substrate. To ensure complete image transfer, carefully monitor the image and adjust the transfer speed as needed.

Product Identification

Date Code and Lot Number

The date code and lot numbers appear on the box end flap and on tags inside each paper core:

- The date is shown as a six digit number separated by dots, for example, **dd.mm.yy** (15.06.01).
- The lot number starts with several zeroes, for example, 0000007915.

Include the date code and lot number of the paper for any phone calls or written correspondence with 3M regarding the paper.

Shelf Life, Storage and Handling

Shelf Life

Unprinted Trident transfer paper has a shelf life of two years after receipt from 3M when stored as indicated below.

Storage Conditions

- Store in the original container
- Store in a clean, dry area, away from direct sunlight.
- Store relative humidity of 20% to 80%, preferred range is 45% to 55%.
- Store in an ambient temperature of 40° to 80°F (10° to 27°C).

Handling

When an open roll of transfer paper is not being used, cover it with the plastic sleeve to protect it from contaminants. If you are storing it on end, place it on a plastic end cap and tape the end of the paper to prevent damage to the edge of the roll.

Handle printer transfer paper carefully to avoid scuffing or abrading the printed images. As the image is printed, roll it image-side-in onto a minimum 3 inch (7 cm) core. Transfer the image to the film as soon after printing as possible.

Health and Safety

Caution

When handling any chemical products, read the manufacturers' container labels and the Material Safety Data Sheets (MSDS) for important health, safety and environmental information.

To obtain MSDS sheets for 3M products:

- By fax, call 1-800-364-0768 in the US and Canada or 1-650-556-8417 for all other locations.
- Electronically, visit us at <http://www.3M.com/MSDS>.
- By mail, or in case of an emergency, call 1-800-364-3577 or 1-651-737-6501.

When using any equipment, always follow the manufacturers' instructions for safe operation.

Warranty and Limited Remedy

The following is made in lieu of all other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose: 3M™ Trident Transfer Paper is warranted to be free of defects in materials and manufacture at the time of shipment and to meet the specifications stated in this Product Bulletin. 3M will replace or refund the price of any 3M materials that do not meet this warranty within the specified time periods. See the worldwide 3M™ MCS™ Warranty bulletin, which gives the terms and limitations of the warranty.

These remedies are exclusive. In no case shall 3M be liable for any direct, indirect, or consequential damages, including any labor or non-3M materials charges.

Attention:**Scotchprint® Graphics Authorized Manufacturers**

Visit our password-protected website for exclusive product information, profiles and services.

www.scotchprint.com, then *Login*

To register, login and click "Register" on the right side of the screen. Certain restrictions apply.

Bulletin Change Summary

Several sections were eliminated; they were pertinent primarily in relationship to how Trident paper differed from paper 8601, which was discontinued some time ago. The eliminated sections include: Advantages, Printing Characteristics, and Bar Code Labeling. Take note also of the increase/clarification in shelf life, the change in the relative humidity recommendation (from 50-60% to 45-55%). Other changes are noted by a black bar in the margin.

3M Related Literature

Before starting any job, be sure you have the most recent product and instruction bulletins.

The following bulletins provide the information you need to properly use the 3M products that may be used in your graphic. You can find these bulletins on our Web site at www.scotchprint.com. Or, call one of these phone numbers to order the desired bulletins via our Fax-on-Demand (FOD) system.

United States or Canada: 1-800-364-0768
International: 1-651-732-6506

Subject	Bulletin No.	FOD No.
Product Bulletins		
Films		
Order an index from the Fax-on-Demand system to identify the FOD No. for the bulletins you need.		
Scotchprint® Toner Series 8700	8700	3514
Instruction Bulletins		
Design of graphics	2.1	3501
Transferring and laminating electrostatically printed images	4.7	6507
Using toner series 8700	4.12	6512

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Seal Image is a registered trademark of Hunt Corporation.

DCS is a trademark of Gretag, The Imaging Company.

ORCA III and ORCA IV are trademarks of GBC/Pro-Tech.

All other trademarks are the property of their respective owners.

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